



ISHT1004.ST25.txt
SEQUENCE LISTING

<110> Dobie, Kenneth W.
Koller, Erich

<120> ANTISENSE MODULATION OF KINESIN-LIKE 1 EXPRESSION

<130> ISHT-1004

<140> US 10/714,796

<141> 2003-11-17

<150> US 10/156,603

<151> 2002-05-23

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<170> PatentIn version 3.2

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Glu Lys Gly Lys Asn Ile Gln Val Val Val Arg Cys Arg Pro Phe Asn
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ttg gca gag cgg aaa gct agc gcc cat tca ata gta gaa tgt gat cct 145
Leu Ala Glu Arg Lys Ala Ser Ala His Ser Ile Val Glu Cys Asp Pro
30 35 40 45

gta cga aaa gaa gtt agt gta cga act gga gga ttg gct gac aag agc 193
Val Arg Lys Glu Val Ser Val Arg Thr Gly Gly Leu Ala Asp Lys Ser
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tca agg aaa aca tac act ttt gat atg gtg ttt gga gca tct act aaa 241

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att	atg	ggc	tat	aat	tgc	act	atc	ttt	gcg	tat	ggc	caa	act	ggc	act	337
Ile	Met	Gly	Tyr	Asn	Cys	Thr	Ile	Phe	Ala	Tyr	Gly	Gln	Thr	Gly	Thr	
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gga	aaa	act	ttt	aca	atg	gaa	ggg	gaa	agg	tca	cct	aat	gaa	gag	tat	385
Gly	Lys	Thr	Phe	Thr	Met	Glu	Gly	Glu	Arg	Ser	Pro	Asn	Glu	Glu	Tyr	
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Thr	Trp	Glu	Glu	Asp	Pro	Leu	Ala	Gly	Ile	Pro	Arg	Thr	Leu	His		
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Gln	Ile	Phe	Glu	Lys	Leu	Thr	Asp	Asn	Gly	Thr	Glu	Phe	Ser	Val	Lys	
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Val	Ser	Leu	Leu	Glu	Ile	Tyr	Asn	Glu	Glu	Leu	Phe	Asp	Leu	Leu	Asn	
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Pro	Ser	Ser	Asp	Val	Ser	Glu	Arg	Leu	Gln	Met	Phe	Asp	Asp	Pro	Arg	
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Thr	Thr	Ala	Ala	Thr	Leu	Met	Asn	Ala	Tyr	Ser	Ser	Arg	Ser	His	Ser	
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Glu	Asn	Ile	Gly	Arg	Ser	Gly	Ala	Val	Asp	Lys	Arg	Ala	Arg	Glu	Ala	
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gga	aat	ata	aat	caa	tcc	ctg	ttg	act	ttg	gga	agg	gtc	att	act	gcc	913
Gly	Asn	Ile	Asn	Gln	Ser	Leu	Leu	Thr	Leu	Gly	Arg	Val	Ile	Thr	Ala	
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ctt	gta	gaa	aga	aca	cct	cat	gtt	cct	tat	cga	gaa	tct	aaa	cta	act	961
Leu	Val	Glu	Arg	Thr	Pro	His	Val	Pro	Tyr	Arg	Glu	Ser	Lys	Leu	Thr	
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aga	atc	ctc	cag	gat	tct	ctt	gga	ggg	cgt	aca	aga	aca	tct	ata	att	1009
Arg	Ile	Leu	Gln	Asp	Ser	Leu	Gly	Gly	Arg	Thr	Arg	Thr	Ser	Ile	Ile	
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Ala	Thr	Ile	Ser	Pro	Ala	Ser	Leu	Asn	Leu	Glu	Glu	Thr	Leu	Ser	Thr	
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ata gaa cgt tta aaa cga gat ctt gct gca gcc cgt gag aaa aat gga Ile Glu Arg Leu Lys Arg Asp Leu Ala Ala Ala Arg Glu Lys Asn Gly 385 390 395	1201
gtg tat att tct gaa gaa aat ttt aga gtc atg agt gga aaa tta act Val Tyr Ile Ser Glu Glu Asn Phe Arg Val Met Ser Gly Lys Leu Thr 400 405 410	1249
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gag gag gag ctg aat agg gtt aca gag ttg ttt atg gat aat aaa aat Glu Glu Glu Leu Asn Arg Val Thr Glu Leu Phe Met Asp Asn Lys Asn 430 435 440 445	1345
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gaa acc act caa aaa cat ttg caa gaa act aaa tta caa ctt gtt aaa Glu Thr Thr Gln Lys His Leu Gln Glu Thr Lys Leu Gln Leu Val Lys 465 470 475	1441
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cac aat gca gaa gct cag gat att ttt ggc aaa aac ctg aat agt ctg His Asn Ala Glu Ala Gln Asp Ile Phe Gly Lys Asn Leu Asn Ser Leu 530 535 540	1633
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gac	atc	act	gag	aaa	tca	gat	gga	cgt	aag	gca	gct	cat	gag	aaa	cag	2641
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acg aca cca cag agg aaa agt tat tta tac cca tca aca ctg gta aga 2833
Thr Thr Pro Gln Arg Lys Ser Tyr Leu Tyr Pro Ser Thr Leu Val Arg
930 935 940

act gaa cca cgt gaa cat ctc ctt gat cag ctg aaa agg aaa cag cct 2881
Thr Glu Pro Arg Glu His Leu Leu Asp Gln Leu Lys Arg Lys Gln Pro
945 950 955

gag ctg tta atg atg cta aac tgt tca gaa aac aac aaa gaa gag aca 2929
Glu Leu Leu Met Met Leu Asn Cys Ser Glu Asn Asn Lys Glu Glu Thr
960 965 970

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Ile Pro Asp Val Asp Val Glu Glu Ala Val Leu Gly Gln Tyr Thr Glu
975 980 985

gaa cct cta agt caa gag cca tct gta gat gct ggt gtg gat tgt tca 3025
Glu Pro Leu Ser Gln Glu Pro Ser Val Asp Ala Gly Val Asp Cys Ser
990 995 1000 1005

tca att ggc ggg gtt cca ttt ttc cag cat aaa aaa tca cat gga 3070
Ser Ile Gly Gly Val Pro Phe Phe Gln His Lys Lys Ser His Gly
1010 1015 1020

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Lys Asp Lys Glu Asn Arg Gly Ile Asn Thr Leu Glu Arg Ser Lys
1025 1030 1035

gtg gaa gaa act aca gag cac ttg gtt aca aag agc aga tta cct 3160
Val Glu Glu Thr Thr Glu His Leu Val Thr Lys Ser Arg Leu Pro
1040 1045 1050

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Leu Arg Ala Gln Ile Asn Leu
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50      55      60

Thr Tyr Thr Phe Asp Met Val Phe Gly Ala Ser Thr Lys Gln Ile Asp
65      70      75      80

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85      90      95

Tyr Asn Cys Thr Ile Phe Ala Tyr Gly Gln Thr Gly Thr Gly Lys Thr
100     105     110

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115     120     125

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130     135     140

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145     150     155     160

Leu Glu Ile Tyr Asn Glu Glu Leu Phe Asp Leu Leu Asn Pro Ser Ser
165     170     175

Asp Val Ser Glu Arg Leu Gln Met Phe Asp Asp Pro Arg Asn Lys Arg
180     185     190

Gly Val Ile Ile Lys Gly Leu Glu Glu Ile Thr Val His Asn Lys Asp
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 305 310 315 320
 Gln Asp Ser Leu Gly Gly Arg Thr Arg Thr Ser Ile Ile Ala Thr Ile
 325 330 335
 Ser Pro Ala Ser Leu Asn Leu Glu Glu Thr Leu Ser Thr Leu Glu Tyr
 340 345 350
 Ala His Arg Ala Lys Asn Ile Leu Asn Lys Pro Glu Val Asn Gln Lys
 355 360 365
 Leu Thr Lys Lys Ala Leu Ile Lys Glu Tyr Thr Glu Glu Ile Glu Arg
 370 375 380
 Leu Lys Arg Asp Leu Ala Ala Ala Arg Glu Lys Asn Gly Val Tyr Ile
 385 390 395 400
 Ser Glu Glu Asn Phe Arg Val Met Ser Gly Lys Leu Thr Val Gln Glu
 405 410 415
 Glu Gln Ile Val Glu Leu Ile Glu Lys Ile Gly Ala Val Glu Glu Glu
 420 425 430
 Leu Asn Arg Val Thr Glu Leu Phe Met Asp Asn Lys Asn Glu Leu Asp
 435 440 445
 Gln Cys Lys Ser Asp Leu Gln Asn Lys Thr Gln Glu Leu Glu Thr Thr
 450 455 460
 Gln Lys His Leu Gln Glu Thr Lys Leu Gln Leu Val Lys Glu Glu Tyr
 465 470 475 480
 Ile Thr Ser Ala Leu Glu Ser Thr Glu Glu Lys Leu His Asp Ala Ala
 485 490 495
 Ser Lys Leu Leu Asn Thr Val Glu Glu Thr Thr Lys Asp Val Ser Gly
 500 505 510
 Leu His Ser Lys Leu Asp Arg Lys Lys Ala Val Asp Gln His Asn Ala
 515 520 525
 Glu Ala Gln Asp Ile Phe Gly Lys Asn Leu Asn Ser Leu Phe Asn Asn
 530 535 540
 Met Glu Glu Leu Ile Lys Asp Gly Ser Ser Lys Gln Lys Ala Met Leu
 545 550 555 560

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 565 570 575

Ala Leu Asp Thr Ile Thr Thr Val Ala Leu Gly Ser Leu Thr Ser Ile
 580 585 590

Pro Glu Asn Val Ser Thr His Val Ser Gln Ile Phe Asn Met Ile Leu
 595 600 605

Lys Glu Gln Ser Leu Ala Ala Glu Ser Lys Thr Val Leu Gln Glu Leu
 610 615 620

Ile Asn Val Leu Lys Thr Asp Leu Leu Ser Ser Leu Glu Met Ile Leu
 625 630 635 640

Ser Pro Thr Val Val Ser Ile Leu Lys Ile Asn Ser Gln Leu Lys His
 645 650 655

Ile Phe Lys Thr Ser Leu Thr Val Ala Asp Lys Ile Glu Asp Gln Lys
 660 665 670

Lys Arg Asn Ser Asp Gly Phe Leu Ser Ile Leu Cys Asn Asn Leu His
 675 680 685

Glu Leu Gln Glu Asn Thr Ile Cys Ser Leu Val Glu Ser Gln Lys Gln
 690 695 700

Cys Gly Asn Leu Thr Glu Asp Leu Lys Thr Ile Lys Gln Thr His Ser
 705 710 715 720

Gln Glu Leu Cys Lys Leu Met Asn Leu Trp Thr Glu Arg Phe Cys Ala
 725 730 735

Leu Glu Glu Lys Cys Glu Asn Ile Gln Lys Pro Leu Ser Ser Val Gln
 740 745 750

Glu Asn Ile Gln Gln Lys Ser Lys Asp Ile Val Asn Lys Met Thr Phe
 755 760 765

His Ser Gln Lys Phe Cys Ala Asp Ser Asp Gly Phe Ser Gln Glu Leu
 770 775 780

Arg Asn Phe Asn Gln Glu Gly Thr Lys Leu Val Glu Glu Ser Val Lys
 785 790 795 800

His Ser Asp Lys Leu Asn Gly Asn Leu Glu Lys Ile Ser Gln Glu Thr
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Glu Gln Arg Cys Glu Ser Leu Asn Thr Arg Thr Val Tyr Phe Ser Glu
 820 825 830

Gln Trp Val Ser Ser Leu Asn Glu Arg Glu Gln Glu Leu His Asn Leu
 835 840 845

Leu Glu Val Val Ser Gln Cys Cys Glu Ala Ser Ser Ser Asp Ile Thr
 850 855 860
 Glu Lys Ser Asp Gly Arg Lys Ala Ala His Glu Lys Gln His Asn Ile
 865 870 875 880
 Phe Leu Asp Gln Met Thr Ile Asp Glu Asp Lys Leu Ile Ala Gln Asn
 885 890 895
 Leu Glu Leu Asn Glu Thr Ile Lys Ile Gly Leu Thr Lys Leu Asn Cys
 900 905 910
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 Arg Glu His Leu Leu Asp Gln Leu Lys Arg Lys Gln Pro Glu Leu Leu
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 Met Met Leu Asn Cys Ser Glu Asn Asn Lys Glu Glu Thr Ile Pro Asp
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 Ser Gln Glu Pro Ser Val Asp Ala Gly Val Asp Cys Ser Ser Ile Gly
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 Gly Val Pro Phe Phe Gln His Lys Lys Ser His Gly Lys Asp Lys
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ISHT1004.ST25.txt

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ISHT1004.ST25.txt

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ISHT1004.ST25.txt

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